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# SIDING INFORMATION

## **EXTERIOR COVERING**

### **R703.1 General.**

Exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.8. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water resistive barrier behind the exterior veneer as required by Section R703.2

### **R703.2 WATER-RESISTIVE BARRIER**

One layer of No. 15 asphalt felt, free from holes and breaks, complying with ASTM D 226 for Type 1 felt or other approved water-resistive barrier shall be applied over studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. The felt or other approved material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

**Exception:** Omission of the water-resistive barrier is permitted in the following situations.

1. In detached accessory buildings.
2. Under exterior wall finish materials as permitted in Table R703.4.
3. Under paperbacked stucco lath when the paper backing is an approved weather-resistive sheathing paper.

### **703.6 EXTERIOR PLASTER**

Installation of these materials shall be in compliance with ASTM C926 and ASTM C1063 and the provisions of this code.

**R703.6.1 Lath** All lath and lath attachments shall be of corrosion-resistant materials. Expanded metal or woven wire lath shall be attached with 1½-inch-long (38 mm), 11 gage nails having a 7/16-inch head, or ⅞-inch-long, 16 gage staples, spaced at no more than 6 inches, or as otherwise approved.

**703.6.2 Plaster** Plastering with Portland cement plaster shall be not less than three coats when applied over metal lath or wire lath and shall be not less than two coats when applied over masonry, concrete, pressure-preservative treated wood or decay-resistant wood as specified in Section R319.1 or gypsum backing. If the plaster surface is completely covered by veneer or other facing material or is completely concealed, plaster application need be only two coats, provided the total thickness is as set forth in Table R702.1 (1)

**TABLE R703.4**  
**WEATHER-RESISTANT SIDING ATTACHMENT AND MINIMUM THICKNESS**

SIDING MATERIAL		NOMINAL THICKNES <sup>a</sup> (inches)	JOINT TREATMENT	WATER-RESISTIVE BARRIER REQUIRED	TYPE OF SUPPORTS FOR THE SIDING MATERIAL AND FASTENERS <sup>b,c,d</sup>					
					Wood or wood structural panel sheathing	Fiberboard sheathing into stud	Gypsum sheathing into stud	Foam plastic sheathing into stud	Direct to studs	Number or spacing of fasteners
Horizontal aluminum <sup>e</sup>	Without insulation	0.019 <sup>f</sup>	Lap	Yes	0.120 nail 1½" long	0.120 nail 2" long	0.120 nail 2" long	0.120 nail <sup>g</sup>	Not allowed	Same as stud spacing
		0.024	Lap	Yes	0.120 nail 1½" long	0.120 nail 2" long	0.120 nail 2" long	0.120 nail <sup>g</sup>	Not allowed	
	With insulation	0.019	Lap	Yes	0.120 nail 1½" long	0.120 nail 2½" long	0.120 nail 2½" long	0.120 nail <sup>g</sup>	0.120 nail 1½" long	
Brick veneer <sup>z</sup> Concrete masonry veneer <sup>z</sup>		2 2	Section R703	Yes (Note l)	See Section R703 and Figure R703.7 <sup>h</sup>					
Hardboard <sup>k</sup> Panel siding-vertical		7/16	—	Yes	Note n	Note n	Note n	Note n	Note n	6" panel edges 12" inter. sup. <sup>o</sup>
Hardboard <sup>k</sup> Lap-siding-horizontal		7/16	Note q	Yes	Note p	Note p	Note p	Note p	Note p	Same as stud spacing 2 per bearing
Steel <sup>h</sup>		29 ga.	Lap	Yes	0.113 nail 1¾" Staple-1¾"	0.113 nail 2¾" Staple-2½"	0.113 nail 2½" Staple-2¼"	0.113 nail <sup>g</sup> Staple <sup>v</sup>	Not allowed	Same as stud spacing
Stone veneer		2	Section R703	Yes (Note l)	See Section R703 and Figure R703.7 <sup>h</sup>					
Particleboard panels		3/8 - 1/2	—	Yes	6d box nail (2" × 0.099")	6d box nail (2" × 0.099")	6d box nail (2" × 0.099")	box nail <sup>v</sup>	6d box nail (2" × 0.099"), 3/8 not allowed	6" panel edge, 12" inter. sup.
		5/8	—	Yes	6d box nail (2" × 0.099")	8d box nail (2½" × 0.113")	8d box nail (2½" × 0.113")	box nail <sup>v</sup>	6d box nail (2" × 0.099")	
Plywood panel <sup>i</sup> (exterior grade)		3/8	—	Yes	0.099 nail-2"	0.113 nail-2½"	0.099 nail-2"	0.113 nail <sup>g</sup>	0.099 nail-2"	6" on edges, 12" inter. sup.
Vinyl siding <sup>m</sup>		0.035	Lap	Yes	0.120 nail 1½" Staple-1¾"	0.120 nail 2" Staple-2½"	0.120 nail 2" Staple-2½"	0.120 nail <sup>g</sup> Staple <sup>v</sup>	Not allowed	Same as stud spacing
Wood <sup>j</sup> rustic, drop		3/8 Min	Lap	Yes	Fastener penetration into stud-1"				0.113 nail-2½" Staple-2"	Face nailing up to 6" widths, 1 nail per bearing; 8" widths and over, 2 nails per bearing
Shiplap		19/32 Average	Lap	Yes						
Bevel		7/16								
Butt tip		3/16	Lap	Yes						
Fiber cement panel siding <sup>r</sup>		5/16	Note s	Yes Note x	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l,y</sup>	4d corrosion-resistant nail <sup>u</sup>	6" o.c. on edges, 12" o.c. on intermed. studs
Fiber cement lap siding <sup>r</sup>		5/16	Note v	Yes Note x	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l</sup>	6d corrosion-resistant nail <sup>l,y</sup>	6d corrosion-resistant nail <sup>w</sup>	Note w

For SI: 1 inch = 25.4 mm.

a. Based on stud spacing of 16 inches on center where studs are spaced 24 inches, siding shall be applied to sheathing approved for that spacing.

b. Nail is a general description and shall be T-head, modified round head, or round head with smooth or deformed shanks.

c. Staples shall have a minimum crown width of 7/16-inch outside diameter and be manufactured of minimum 16 gage wire.

d. Nails or staples shall be aluminum, galvanized, or rust-preventative coated and shall be driven into the studs for fiberboard or gypsum backing.

e. Aluminum nails shall be used to attach aluminum siding.

f. Aluminum (0.019 inch) shall be unbacked only when the maximum panel width is 10 inches and the maximum flat area is 8 inches. The tolerance for aluminum siding shall be +0.002 inch of the nominal dimension.

g. All attachments shall be coated with a corrosion-resistant coating.

h. Shall be of approved type.

(continued)